



PLEASE READ CAREFULLY BEFORE PROCEEDING WITH INSTALL

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- Return of product(s) will be accepted ONLY if product(s) is in resellable condition. All accepted returns will be subjected to a 20% restocking fee. ABSOLUTELY NO RETURNS ON USED PRODUCTS. For more information on return policy, please call 951-808-9888.

Part # 309-05-0050

Pro Series Billet Throttle Body - 70mm

*******FOR RACE USE ONLY*******

**1990 - 2001 Honda/Acura B-series engines
1992 - 2000 Honda D-series engines**

**1990 - 2002 Honda F-series (SOHC) engines
1992 - 2001 Honda H-series engines**

Parts list (Please make sure all parts are included in the kit before proceeding with installation.)

- | | |
|-------------------------------------|---|
| (1) Pro Series Billet Throttle Body | (1) 3/8" hose - 11" length |
| (4) Bolts - M8 x 1.25 | (2) Screws and washers for TPS mounting |
| (1) Gasket | |

INSTALLATION - Please refer to factory service manual if available.

It is recommended that this product be installed by an experienced automotive mechanic / technician

Removal of throttle body:

1. Disconnect the negative battery cable.
2. Relieve coolant pressure from the radiator. CAUTION - make sure the engine is cool before relieving the coolant pressure.
3. Remove the intake tube.
4. Remove the throttle cable.
5. Disconnect the throttle position sensor (TPS) and the manifold absolute pressure (MAP) sensor. Do not discard the o-rings as these will be used on the Skunk2 Pro Series throttle body.
6. Disconnect the lower bypass hoses.
7. Remove the 12mm nuts and bolts from the throttle body.
8. Remove the throttle body.
9. Measure the throttle position sensor (TPS) voltage with a volt meter. Record the voltage measurements.
10. Remove the throttle position sensor (TPS) by CAREFULLY grinding off the heads of the screws.

Installation of the Skunk2 Pro Series throttle body:

1. Before installation, check the condition of the o-rings and gaskets which were removed from the stock throttle body. Replace any o-rings or gaskets that show signs of deterioration.
2. Install the throttle position sensor (TPS) using the the stock gasket. Set the same voltage measurement that was recorded during the removal of the throttle body. Mount the TPS onto the Skunk2 throttle body using the two screws provided.
3. Install the MAP sensor using the stock o-ring.
4. Adjust the throttle stop screw located at the bottom of the throttle body. Tighten the screw until the throttle plate does not stick. Once this is achieved, tighten the locking nut.
5. Cut the new throttle body gasket to the size of the new throttle body and install the gasket.
6. Remove the 2 bypass hoses and install the 3/8" hose supplied in this kit.
7. Install the Skunk2 throttle body onto the intake manifold using the four bolts provided in the kit. Torque bolts to 16 lb-ft.
8. Connect the TPS and MAP sensor.
9. Connect the throttle cable. Make sure that the throttle plate properly operates in its full range of motion (closed to wide-open).
10. Install the intake tube.
11. Connect the negative battery cable.
12. Check the coolant level. Add coolant if necessary.

Troubleshooting:

Following are the common problems you may encounter after installing the throttle body.

1. Problem: Engine surges
Solution: Check for vacuum leaks. Make sure all hoses are properly connected.
2. Problem: Engine idle is low
Solution: Adjust the idle screw to increase idle
3. Problem: Engine idle is high
Solution: Adjust the idle screw to decrease idle
4. Problem: Throttle plate sticks in the closed position
Solution: Adjust the throttle stop screw until the throttle plate no longer sticks. Once this is done, you must check the throttle position sensor (TPS) voltage and adjust to the previously recorded measurement.
5. Problem: Throttle plate sticks in the open position
Solution: Check the return spring. Contact Skunk2 if the return spring is broken.
6. Problem: Throttle plate does not have its full range of motion
Solution: Make sure the throttle cable is properly connected. Once this is done, make adjustments to the throttle cable using the adjusting nut.
7. Problem: Difficulty mounting throttle position sensor (TPS)
Solution: CAREFULLY make adjustments to the mounting holes
8. Problem: Throttle pedal feels sticky
Solution: Check the throttle body - make sure all connections are secure and that the throttle plate is operating correctly. Also check the throttle cable - make sure all connections are secure and that it is properly adjusted.

Should you need further assistance, please contact Skunk2 Racing at 951-808-9888 for technical support.